ABSTRACT OF THE DISCLOSURE

An insulator is provided between interconnect layers oppositely placed. The interconnect layers are connected between by connection members provided through the insulator. The connection members at one and the other ends are connected between in their center positions. A shield layer is provided spaced from the intermediate connection layer generally on a same plane as the intermediate connection layer. A condition of $(R \cdot r)/(2 \cdot h) \leq L \leq (5 \cdot R \cdot r)/h$ is satisfied, provided that a connection distance between the interconnect layers through the connection members and the intermediate connection layer is h, the connection members where considered generally as a circular cylinder have a diameter R, the intermediate connection layer where considered generally as circular has a diameter r, and a spaced distance between the intermediate connection layer and the shield layer is L. Thus, characteristic impedance is stabilized.